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Simulation in agent-based manufacturing control systems

P Vrba, V Marik - 2005 IEEE International Conference on Systems, Man ..., 2005 - ieeexplore.ieee.org
... Thus, the **sensor/actuator** values are shared in the data ... control programs in the memory of the **industrial controller**. ... any need to modify the **agent** control part. ...
Cited by 4 - Related articles

[PDF] •Behaviour-based mobile manipulation: the opening of a door

BJW Waarsing, M Nuttin, H Van Brussel - Proc. of the Int. Workshop on Advances in Service ... - mech.kuleuven.be
... equipped with a wrist force/torque **sensor** and a ... The **industrial controller** of the CRS mani- pulator is ... The program is implemented using our **agent**-based software ...
Cited by 8 - Related articles - View as HTML - All 5 versions

Industrial controller input/output card providing reflex response

E Dummermuth... - US Patent 6,073,053, 2000 - Google Patents
... Assistant Examiner—Zoila Cabrera Attorney, **Agent**, or Firm ... signal from the optical **sensor** 26 and a ... I claim: 1. An **industrial controller** producing electrical ...
Cited by 2 - Related articles - All 2 versions

Controller with agent functionality

FP Maturana, KH Hall, RJ Staron, P Slechta, ... - US Patent App. 10/808,772, 2004 - Google Patents
... number, type and characteristics of **sensor** signals and ... to a configuration device for enabling an **industrial controller** to ... 2004 operate as an **agent** that governs ...
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... controller having data table interface between agent-type programming and non-agent- ...

FP Maturana, KH Hall, RJ Staron, P Slechta, V ... - US Patent App. 10/808,680, 2004 - Google Patents
... in automating a process with an **industrial controller** is the ... develop a single, standard **agent** that would ... number, type and characteristics of **sensor** signals and ...
All 4 versions

[PDF] •The NIST Process Control Security Requirements Forum (PCSRF) and the Future of ...

K Stouffer, J Falco, F Proctor - isd.mel.nist.gov
... Security, National Security **Agency** and NIST ... for component protection profiles (**industrial controller** authentication, **sensor** ... **actuator**, and **sensor** properties from ...
Related articles - View as HTML - All 4 versions

Behavior-based mobile manipulation inspired by the human example- •psu.edu [PDF]

BJW Waarsing, M Nuttin, H Van Brussel - IEEE International Conference on Robotics and …, 2003 - ieeexplore.ieee.org
… The **industrial controller** of the CRS manip- ulator is removed … torque sensors, we use a force **sensor** at the … program is implemented using our **agent**-based software …
Cited by 4 - Related articles - BL Direct - All 4 versions

Industrial controller based on distributed technology objects

W Horn, J Birzer, T Heber, R Kram, M Kiesel - US Patent 7,561,929, 2009 - freepatentsonline.com
… Barnes Bullock, Crystal J. Attorney, **Agent** or Firm … run time system RTS1-RTS3 of an **industrial controller**. … standard axes with drive, motor, **sensor**, and therefore …

From biological inspiration toward next-generation manipulators: manipulator control …

BJW Waarsing, M Nuttin, H Van Brussel, B … - IEEE Transactions on Systems, Man, and Cybernetics, …, 2005 - ieeexplore.ieee.org
… be made: first, the type of **actuator** commands that … with a JR3 wrist force/torque **sensor** and a … The **industrial controller** of the CRS manipulator has been removed …
Cited by 3 - Related articles - All 3 versions

Enabling federated control by developing a distributed control application platform

AJR Aenderroomer, D ZhongQiang, H Hao, Q … - … Conference on Industrial Informatics, 2003. INDIN …, 2003 - ieeexplore.ieee.org
… are the active entities, actors, agents etc. … For example, for an **industrial controller** (where the … or special purpose devices like **sensor** / **actuator** combinations …
Cited by 6 - Related articles - All 2 versions

Agent program environment

RJ Staron, KH Hall, FP Maturana, P Tichy, P … - US Patent App. 10/808,999, 2004 - Google Patents
… in automating a process with an **industrial controller** is the … 14, 2004 agent that would be capable of … the number, type and characteristics of **sensor** signals and …
Related articles - All 5 versions

Method and apparatus for digitally processing and filtering signals in industrial control …

RJ Molnar - US Patent 5,339,335, 1994 - Google Patents
… Assistant Examiner—Amanda T. Le Attorney, **Agent**, or Firm … a heavily dampened signal and have poor **industrial controller**. … **actuator** 14, process 15 and **sensor** 16. …
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[PDF] •From biological inspiration towards next-generation manipulators: manipulator control …

BJWWMNH Van, BB Corteville - mech.kuleuven.be
… the kind of co-ordinate sys- tems used (hand-related, **sensor**-based, body … what type of feedback information is used and what type of '**actuator** commands' is …
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External servicing testbed for automation and robotics

G Colombina, F Didot, G Magnani, A Rusconi - IEEE Robotics & Automation Magazine, 1996 - ieeexplore.ieee.org
… installed at the European Space **Agency** Research and … are the quadrature current set points of each **actuator**. … exteroceptive **sensor** signals can be closed at the …
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[PDF] University of Twente

G Bajracharya - essay.utwente.nl

... **Controller** Figure 2-2: Hierarchical Structure of Industrial Controllers Holonic Manufacturing Systems (HMS) [14] introduced a special type of physical **agent** ...
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Industrial control system employing relay ladder objects

DL Stine - US Patent 6,466,827, 2002 - Google Patents

... Paul P. Gordon (74) Attorney, **Agent**, or Firm ... and permitting rapid Generally, an **industrial controller** executes a ... relationship with an actual **sensor** or **actuator** ...
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Digitally processing and filtering signals,

RJ Molnar, P It - 1994 - freepatentsonline.com

... Attorney, **Agent** or Firm: Pilch, Adam John Michael (D. YOUNG ... change which appear at the input to the **industrial controller**. ... **actuator** 14, process 15 and **sensor** 16 ...
All 2 versions

Non-linear control system for a single input single output process

PC Wacker, GA Smith - US Patent 5,532,922, 1996 - Google Patents

... Examiner—Joseph Ruggiero Attorney, **Agent**, or Firm ... such controllers have dominated **industrial controller** applications to ... prises an air flow **sensor** providing a ...
Related articles - All 6 versions

Type-2 FLCs: a new generation of fuzzy controllers

H Hagras - IEEE Computational Intelligence Magazine, 2007 - ieeexplore.ieee.org

... the net- work lifetimes for wireless **sensor** networks where ... function of a hydraulic servo **actuator** that is ... ANSI C and embedded in the DSP **industrial controller**. ...
Cited by 17 - Related articles - BL Direct

Method and apparatus for minimizing torsional loads in a rotating shaft

CA Fenny, KE Builta, P It - 2001 - freepatentsonline.com

... XP000964772 ISSN: 0954-4089. Attorney, **Agent** or Firm ... is preferably a microprocessor or **industrial controller** which supplies ... provided from EHV position **sensor** 505 ...
All 2 versions

Industrial control systems

MJ Grimble, NA Fairbairn - US Patent 5,038,269, 1991 - Google Patents

... Jerry Smith Assistant Examiner—Jim Xrammell Attorney, **Agent**, or Firm ... to-analog converter 30 and an **actuator** 31, which ... is measured by means of a **sensor** 32 and ...
Cited by 16 - Related articles - All 6 versions

Alarm/event encryption in an industrial environment

KH Hall, K Tambascio, JJ Baier, EG Dorgelo, ... - 2008 - freepatentsonline.com

... Attorney, **Agent** or Firm: Englaender, Klaus (HML Patent and ... to field devices of an **industrial controller** system. ... for example, an **actuator**, a **sensor**, a controller ...

Method and apparatus for controlling force fights in a rotating shaft

CA Fenny, KE Builta... - US Patent 6,227,481, 2001 - Google Patents
... Galen L. Barefoot (74) Attorney, **Agent**, or Firm ... It is difficult for the **sensor** assembly
and ... is preferably a microprocessor or **industrial controller** which is ...
Cited by 1 - Related articles - All 3 versions

System method and article of manufacture for integrated enterprise-wide control

JC Hoskins, RE Brooks - US Patent 6,108,662, 2000 - Google Patents
... Primary Examiner——Jean R. Homere Attorney, **Agent**, or Firm——John J ... PROCESS: TOOL DESIGN
MECHANICAL SCRIPTS EXPERIENCE **SENSOR /ACTUATOR** RELATIONSHIPS TIMING ...
Cited by 6 - Related articles - All 3 versions

INNOMOTION for Percutaneous Image-Guided Interventions

A Melzer, B Gutmann, T Remmele, R Wolf, A ... - IEEE Engineering in Medicine and Biology Magazine, 2008 -
ieeexplore.ieee.org
... actuators are controlled by an **industrial controller** board with ... a belt to an incremental
sensor and to ... Spherical marker gadolinium contrast **agent** (blue) filled ...
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[BOOK] Modelling control systems using IEC 61499: Applying function blocks to distributed systems

RW Lewis - 2001 - books.google.com
... of licences issued by the Copyright Licensing **Agency**. ... Soft controller Valve **actuator**
Pressure **sensor** Figure 1.3 ... be it in a remote **industrial controller** in a ...
Cited by 157 - Related articles - BL Direct - All 5 versions

Method for measuring the control performance provided by an industrial process control ...

KD Starr - US Patent 6,597,958, 2003 - Google Patents
... Examiner—Crystal J. Barnes (74) Attorney, **Agent**, or Firm ... US 6,597,958 Bl 25 performance
of any **industrial controller**. ... the time it takes for the **sensor** to send ...
Related articles - All 2 versions

Well drilling apparatus or the like with position monitoring system

EM Richardson - US Patent 4,545,017, 1985 - Google Patents
... Examiner—Edward R. Cosimano Attorney, **Agent**, or Firm ... of repair cable and a tool weight
sensor. ... The Texas Instruments 7MT **industrial controller** is described in ...
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Modern computer-aided maintenance of manufacturing equipment and systems: review and ...

J Lee - Computers & Industrial Engineering, 1995 - Elsevier
... in realtime, with the actual **sensor** signals from ... Today's **industrial controller** has
limited capabilities in ... REASONING INTELLIGENT MONITORING **AGENT** (Watchdog) Fig ...
Cited by 28 - Related articles - BL Direct - All 5 versions

Machine performance monitoring and proactive maintenance in computer-integrated ...

J Lee - International Journal of Computer Integrated ..., 1995 - informaworld.com
... In this method, a particular sequence (or set ofsequences) of **actuator**
and **sensor** signals is monitored by using state followers. ...
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Apparatus for monitoring and controlling processing of articles and associated method

RR Fox, SA Rummel - US Patent 6,729,005, 2004 - Google Patents
... Examiner—-John C. Hong (74) Attorney, **Agent**, or Firm ... stress or strain in its **sensor**
functioning ... 5,452,201 discloses an **industrial controller** having a number of ...
All 2 versions

Veneer-slicer with remotely controllable blade angle adjustment

R Brand - US Patent 5,511,598, 1996 - Google Patents
... Primary Examiner—W. Donald Bray Attorney, **Agent**, or Firm ... The controller may be any
industrial controller or a ... and at least one piston position **sensor** and for ...
Cited by 2 - Related articles - All 2 versions

Industrial controllers with highly distributed processing and method of programming same

J Hodorowski, D Pieronek, P It - 1996 - freepatentsonline.com
... Attorney, **Agent** or Firm: Lippert, Dipl. ... Similarly, the outputs of the **industrial
controller** may be either ... modules, for example, each input, **sensor**, output, or ...
All 2 versions

Apparatus for monitoring and controlling processing of articles

RR Fox, SA Rummel - US Patent 6,748,647, 2004 - Google Patents
... Examiner—-John C. Hong (74) Attorney, **Agent**, or Firm ... stress or strain in its **sensor**
functioning ... 5,452,201 discloses an **industrial controller** having a number of ...
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System and method of powering and communicating field ethernet device for an …

S Keyghobad, W Baker, R Thibault - US Patent 6,640,308, 2003 - Google Patents
... M. Butler Assistant Examiner—Nitin C. Patel (74) Attorney, **Agent**, or Firm ... a process
controller, a valve controller, and a temperature **sensor**/ 30 transmitter ...
Related articles - All 2 versions

Implementation of **sensor**-based control algorithms in an industrial robot controller

C Carozzi, G Magnani, S Nicolodi - Control Engineering Practice, 1995 - Elsevier
... The C3G9000, a stateoftheart **industrial controller** manufactured by COMAU ... with a
commercial FT **sensor** (linked through ... at the European Space **Agency** Research and ...
Cited by 1 - Related articles - All 3 versions

Proxy server for integration of industrial automation data over multiple networks

S Chand - US Patent App. 11/230,781, 2005 - Google Patents
... data received and/or output by a controller is an identity of an **actuator** or **sensor**
and a status thereof. This **industrial controller** architecture operates ...
All 3 versions

Disturbance Rejection Tuning of a Tracking Multi-Parametric Predictive Controller

S Gerkši•, B Pregelj - doi.ieeecomputersociety.org
... to the implementation of an **industrial controller**, with emphasis ... active at any
significant **actuator** movement; with ... at the bottom of the **sensor** measurement range ...

Keyboard testing system

LY Kuo - US Patent 6,330,514, 2001 - Google Patents
... Carol S. Tsai (74) Attorney, **Agent**, or Firm ... apparatus, such as personal computer, **industrial controller**, and cash ... device comprises at least one optic **sensor**. ...
Cited by 1 - Related articles - All 2 versions

Method for storing thermoplastic preforms in a container

A Wallis - US Patent App. 10/964,287, 2004 - Google Patents
... by means of a programmable **industrial controller** (not shown ... it can be conditioned by a **sensor** detecting the ... of vegetable oils having an emulsifying **agent** of the ...
Cited by 2 - Related articles - All 4 versions

Safety network for **industrial controller** having reduced bandwidth requirements

JA Lenner, DA Vasko, KW Vandesteeg, KH ... - US Patent 6,721,900, 2004 - Google Patents
... Examiner—Nadeem Iqbal (74) Attorney, **Agent**, or Firm ... is a perspective view of a simplified **industrial controller** using a ... to provide outputs to an **actuator**; FIG ...
Cited by 1 - Related articles - All 6 versions

Method and apparatus for storing plastic preforms in a containner

A Wallis - US Patent App. 10/182,083, 2002 - Google Patents
... by means of a programmable **industrial controller** (not shown ... it can be conditioned by a **sensor** detecting the ... of vegetable oils having an emulsifying **agent** of the ...
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B Armstrong-Helouvry - 1991 - books.google.com
... ISBN: 0-89838-237-8 OBJECT RECOGNITION USING VISION AND TOUCH, P. Allen ISBN: 0-89838-245-9 INTEGRATION, COORDINATION AND CONTROL OF MULTI-**SENSOR** ROBOT SYSTEMS ...
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Adaptive Boiler Controls: Market Survey and Appraisal of a Prototype System

MC Lin, SR Warner, Y Qian - 1994 - Storming Media
... **AGENCY** REPORT NUMBER ... The regulator/tracker logic is an algorithm that computes a control signal on the basis of a feedback signal (feedback **sensor** output); a ...
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T USACERL - dtic.mil
... **AGENCY** REPORT NUMBER ... The regulator/tracker logic is an algorithm that computes a control signal on the basis of a feedback signal (feedback **sensor** output); a ...
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Practical aspects of PID controllers: An industrial experience

JJ Gude, E Kahoraho, J Etxaniz - IEEE Conference on Emerging Technologies and ..., 2006 - ieeexplore.ieee.org
... and applying different tuning methods to the **industrial controller**. ... practical issues such as **actuator** saturation and ... poor performance due to **sensor** and control ...
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System and methodology providing coordinated and modular conveyor zone control

PJ Delaney III, BJ Byczkiewicz, AG Grinberg - US Patent 6,848,933, 2005 - Google Patents
... et al 439/211 Adams et al 439/387 Burke et al 439/417 Malkowski et al 361/826 cited
by examiner Primary Examiner—Neil Abrams (74) Attorney, **Agent**, or Firm ...
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A Amrhein, J Birzer, M Kiesel, R Schmitt - US Patent 7,369,904, 2008 - Google Patents
... Michael B. Holmes (74) Attorney, **Agent**, or Firm ... automation compo- nents into an
industrial controller with a ... Part 2: Modular Integration of **Sensor** Based Milling ...
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... of the various controllers, setting controller, **sensor**, or **actuator** parameters,
programming ... 15, 2004, each of which is entitled "**Agent** Program Environment ...
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DM Callaghan, BA Batke... - US Patent App. 11/764,702, 2007 - Google Patents
... a message broker, a control system, an **industrial controller**, a module ... a MC system,
an application, an intelligent **agent**, autonomous I/O, a **sensor** network, a ...
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Motion controller with remote linking

MA Fugere, DE Halpert - US Patent 5,463,296, 1995 - Google Patents
... Examiner—Brian Sircus Attorney, **Agent**, or Firm ... for example, the output from one shaft
sensor. ... traditionally allocated to an **industrial controller**, while the ...
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Object-oriented programmable **industrial controller** with distributed interface architecture

KC Crater, DL Pierson, WO Schley - US Patent 6,201,996, 2001 - Google Patents
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Keyboard testing apparatus

J Fan - US Patent 6,314,825, 2001 - Google Patents
... Examiner—Robert Raevis (74) Attorney, **Agent**, or Firm ... o apparatus, such as personal
computer, **industrial controller**, and cash ... at least one optic **sensor** 41 for ...
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Resonant frequency identification

W QIAN, Z Li, PB Schmidt, SH Lee, P It - 2008 - freepatentsonline.com
... Attorney, **Agent** or Firm: Grünecker, Kinkeldey, Stockmair & ... An **industrial controller**
can be customized to a particular ... to a motor 211 with a position **sensor** 214 ...
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Motion controller with remote linking and time disturbance correction

MA Chaffee, DE Halpert - US Patent 5,391,970, 1995 - Google Patents
... 318/38 Primary Examiner—Paul Ip Attorney, **Agent**, or Firm ... com- example, the output
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Adaptive alarm controller changes multiple inputs to **industrial controller** in order for state ...

OJ Struger, EJ Klimas - US Patent 5,089,984, 1992 - Google Patents
... Examiner—Mehmet Geckil Attorney, **Agent**, or Firm ... & Brady [57] ABSTRACT An **industrial
controller** monitors its ... to the controller, in turn, **sensor** failure and to ...
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[PDF] •TEMI880

I MANUAL - samwontech.com
... Thank you for purchasing our **Industrial Controller**. ... If any of these items are missed
or damaged, please contact your **agent** or sales ... **ACTUATOR** AOUT1+ AOUT1- ...
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industrial controller with highly distributed processing

DS Pieronek, JJ Hodorowski - US Patent 5,452,201, 1995 - Google Patents
... Examiner—James P. Trammell Attorney, **Agent**, or ... the outputs of the **industrial
controller** may gramming ... outputs pro- example, each input, **sensor**, output, or ...
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Industrial controller

Y Sameda, H Nakatani, A Sawada, J Takehara, ... - 2008 - freepatentsonline.com
... G06F7/48. Attorney, **Agent** or Firm: OBLON, SPIVAK ... This **industrial controller** is
configured with: a first arithmetic ... an input signal from a **sensor** for detecting ...
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Press line system and method

S Bosga, M Segura Golorons, P It - 2007 - freepatentsonline.com
... Attorney, **Agent** or Firm: Dahlstrand, Björn ... ABB AB Legal ... the robot with sync to **sensor**
can read ... or may be any suitable **industrial controller**, or industrial PC ...
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Method of programming industrial controllers with highly distributed processing

J Hodorowski - US Patent 5,530,643, 1996 - Google Patents
... Attorney, **Agent**, or Firm—Keith M. Baxter; John
M. Miller; John J. Horn [57] ABSTRACT A highly distributed industrial ...
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Real-Time **Sensor–Actuator** Networks

S Sastry, SS Iyengar - International Journal of Distributed **Sensor** Networks, 2005 - informaworld.com
... Real-Time **Sensor–Actuator** Networks 19 computer and an **industrial controller** [6].
Instead of considering integration with the physical environment as one of ...
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Z Gao, R Miklosovic, A Radke, W Zhou, Q … - 2007 - freepatentsonline.com
… 2 Cleveland, OH, 44106, US). International Classes: H04L7/02. Attorney, **Agent** or
Firm: … but are not limited to, sampling and loop update rate, **sensor** noise, plant …
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RF Bishop - US Patent App. 11/331,793, 2006 - Google Patents
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A CAMPAIGN - dtic.mil
… The Advanced Research Project **Agency** (ARPA) (one of the potential program … divided
into four main areas: computer control systems, **sensor** systems, actuation …
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JR Hartman… - US Patent App. 11/074,552, 2005 - Google Patents
… examples of suitable entities include an **industrial controller**, SCADA, MES … MC systems,
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CR Wojciechowski, DS Steele, HJ Scudder … - US Patent 4,802,195, 1989 - Google Patents
… Examiner—David P. Porta Attorney, **Agent**, or Firm … mandrel, manipulator arms, a pneumatic
actuator ball plunger … ble controller 20, an **industrial controller** 21, a …
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JE Bussan, CF Bussan, BH Blair - US Patent 4,901,625, 1990 - Google Patents
… 361 Primary Examiner—Edward K. Look Attorney, **Agent**, or Firm … moves the load as the
rotary **actuator** is driven … 3, **sensor** 120 is arranged adjacent second movable …
Cited by 5 - Related articles - All 2 versions

Message engine

KH Hall, GW Hood, S Chand, PR Dmura, MD … - 2008 - freepatentsonline.com
… be a **sensor**, encoder, measurement **sensor**, switch, valve … eg, within an associated
industrial controller.) Moreover, the … one or more intelligent **agents** and/or …

[BOOK] Control engineering solutions: a practical approach

PA Pérez, R Strietzel, N Mort - 1997 - books.google.com
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Message engine searching and classification

KH Hall, GW Hood, S Chand, PR D MURA, MD ... - 2008 - freepatentsonline.com
... to monitor status of field connected sensor inputs, and ... be utilized within the system
200 as an **industrial controller**. ... can be comprised of indexing **agents** "1-P ...
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Integrated multi-**agent** system employing **agents** of different types

FP Maturana, RJ Staron, FM Discenzo, KH Hall ... - US Patent App. 10/948,391, 2004 - Google Patents
... a pro- cess (eg, on an **industrial controller**) is the ... microwave, free-space optical
networks, **sensor** networks (eg ... of which is entitled "**Agent** Program Environment ...
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Event management systems and methods for motion control systems

DW Brown, S Stein, P It - US Patent 7,502,662, 2009 - freepatentsonline.com
... 6201996, Object-oriented programmable **industrial controller** with distributed ...
VI-**Sensor**/Effector Standardized Application (SESA ... Von Buhr MN. Attorney, **Agent** or ...
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W Verdonck - status: published - people.mech.kuleuven.be
... 2] J : Jacobian matrix K : Barycentric tensor K m : **Actuator** torque constant ... Aided
Design COG : Center of gravity CSA : Canadian Space **Agency** DLR : Deutsches ...
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[PDF] •UNIVERSITE JOSEPH FOURIER-GRENOBLE

B Hnilicka - hal.archives-ouvertes.fr
... by the European Commission (Marie Curie Fellowship) and by the Czech Grant **Agency**
GACR under ... 4.1 Values of the physical parameters for the radial **actuator**. .. ...
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Golf course environmental management system and method

RF Bishop Jr - US Patent 7,172,366, 2007 - Google Patents
... Benson Benson Benson Benson Rohoza JP (Continued) FOREIGN PATENT DOCUMENTS 04051825
2/1992 Primary Examiner—Frederick L. Lagman (74) Attorney, **Agent**, or Firm ...
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PA Laplante - 1999 - books.google.com
... 293-297, 1979. [37] Pallas-Arany and Webster, JG, **Sensor** and Signal
Conditioning, New York: John Wiley & Sons, 1991. [38] Patterson ...
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